

WHAT IS CLAIMED IS:

- 1 1. An electrical shield, comprising:
2 a body of moldable material, said body having a
3 primary side and a secondary side, wherein a plurality of
4 channels are formed on said primary side for receiving
5 electrical cables therein; and
6 an electrically conductive coating disposed at least
7 on said secondary side, wherein said coating is operable in
8 an electrically conductive relationship with a chassis in
9 which said body of moldable material is operable to be
10 disposed.
- 1 2. The electrical shield of claim 1, wherein said
2 electrically conductive coating is disposed on said primary
3 side.
- 1 3. The electrical shield of claim 1, wherein said
2 secondary side comprises a substantially planar surface.
- 1 4. The electrical shield of claim 3, further
2 comprising a connector hole intersecting a select one of
3 said plurality of channels and said substantially planar
4 surface.

1 5. The electrical shield of claim 4, further
2 comprising a slot intersecting said substantially planar
3 surface and said connector hole.

1 6. The electrical shield of claim 5, wherein said
2 slot comprises an ergonomically contoured hold.

1 7. The electrical shield of claim 5, wherein said
2 connector hole and said slot are operable to accommodate a
3 connector associated with a select one of said electrical
4 cables.

1 8. The electrical shield of claim 3, wherein said
2 body of moldable material comprises a structural plastic
3 foam.

1 9. The electrical shield of claim 3, wherein said
2 coating comprises a metallic coating layer.

1 10. The electrical shield of claim 9, wherein said
2 metallic coating comprises a non-oxidizing copper layer.

1 11. The electrical shield of claim 9, wherein said
2 metallic coating is sprayed on said body of moldable
3 material.

1 12. The electrical shield of claim 9, wherein said
2 metallic coating comprises Spraylat 599-Y1371.

1 13. The electrical shield of claim 1, further
2 comprising a contour intersecting a select one of said
3 plurality of channels.

1 14. The electrical shield of claim 13, wherein said
2 contour is operable to accommodate at least one ferrite
3 core coupled to a select one of said electrical cables.

1 15. The electrical shield of claim 13, wherein said
2 contour is disposed at a terminus of said select one of
3 said plurality of channels.

1 16. The electrical shield of claim 1, wherein said
2 chassis forms a portion of a telecommunications equipment
3 rack.

1 17. A telecommunications equipment rack having
2 electromagnetic interference compliance, comprising:

3 a backplane having a plurality of cables disposed
4 thereon in a predetermined grooming pattern; and

5 a molding formed from a structural plastic foam body
6 having a plurality of channels on one of its surfaces, said
7 plurality of channels accommodating said plurality of
8 cables,

9 wherein at least one of said surfaces of said body is
10 coated with an electrically conductive material for
11 providing an electrically conductive relationship with a
12 chassis portion of said telecommunications equipment rack
13 when said molding is attached to said backplane and
14 disposed in said telecommunications equipment rack.

1 18. The telecommunications equipment rack of claim
2 17, wherein said at least one of said surfaces of said body
3 comprises a substantially planar surface.

1 19. The telecommunications equipment rack of claim
2 18, further comprising a connector hole intersecting a
3 select one of said plurality of channels and said
4 substantially planar surface.

1 20. The telecommunications equipment rack of claim
2 19, further comprising a slot intersecting said
3 substantially planar surface and said connector hole.

1 21. The telecommunications equipment rack of claim
2 20, wherein said slot comprises an ergonomically contoured
3 hold.

1 22. The telecommunications equipment rack of claim
2 20, wherein said connector hole and said slot are operable
3 to accommodate a connector associated with a select one of
4 said cables.

1 23. The telecommunications equipment rack of claim
2 17, wherein said electrically conductive material is a non-
3 oxidizing copper.

1 24. The telecommunications equipment rack of claim
2 17, further comprising at least one ferrite core coupled to
3 a select one of said cables.

1 25. The telecommunications equipment rack of claim
2 24, further comprising a contour intersecting a select one
3 of said plurality of channels, said contour operable to
4 accommodate at least one of said ferrite cores coupled to
5 a select one of said cables.

1 26. The telecommunications equipment rack of claim
2 17, wherein said molding is attached to said backplane by
3 a plurality of fasteners.

1 27. The telecommunications equipment rack of claim
2 17, further comprising a conductive plate coupled to said
3 electrically conductive material of said molding, wherein
4 said conductive plate is operable in a conductive
5 relationship with said chassis portion.

1 28. The telecommunications equipment rack of claim
2 27, wherein said conductive plate is coupled to said
3 molding by a plurality of gaskets.

1 29. The electrical shield of claim 28, wherein said
2 gaskets are metallic compressible gaskets.

1 30. A method for providing electromagnetic
2 interference shielding in an equipment rack having a
3 backplane, comprising:

4 grooming a plurality of cables coupled to said
5 backplane into a pattern;

6 molding a structural plastic foam body having a
7 plurality of channels, said plurality of channels
8 substantially conforming to said pattern so as to
9 accommodate said plurality of cables therein;

10 coating said structural plastic foam body with an
11 electrically conductive material; and

12 coupling said structural plastic foam body to said
13 backplane such that an electrically conductive relationship
14 is established between said electrically conductive
15 material and a chassis forming a portion of said equipment
16 rack.

1 31. The method as recited in claim 30, further
2 comprising the step of interposing a conductive plate
3 between said structural plastic foam body and said chassis.

1 32. The method as recited in claim 30, wherein said
2 step of coating said structural plastic foam body is
3 effectuated by spraying.

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1 33. The method as recited in claim 30, wherein said
2 step of coating said structural plastic foam body is
3 effectuated by depositing.